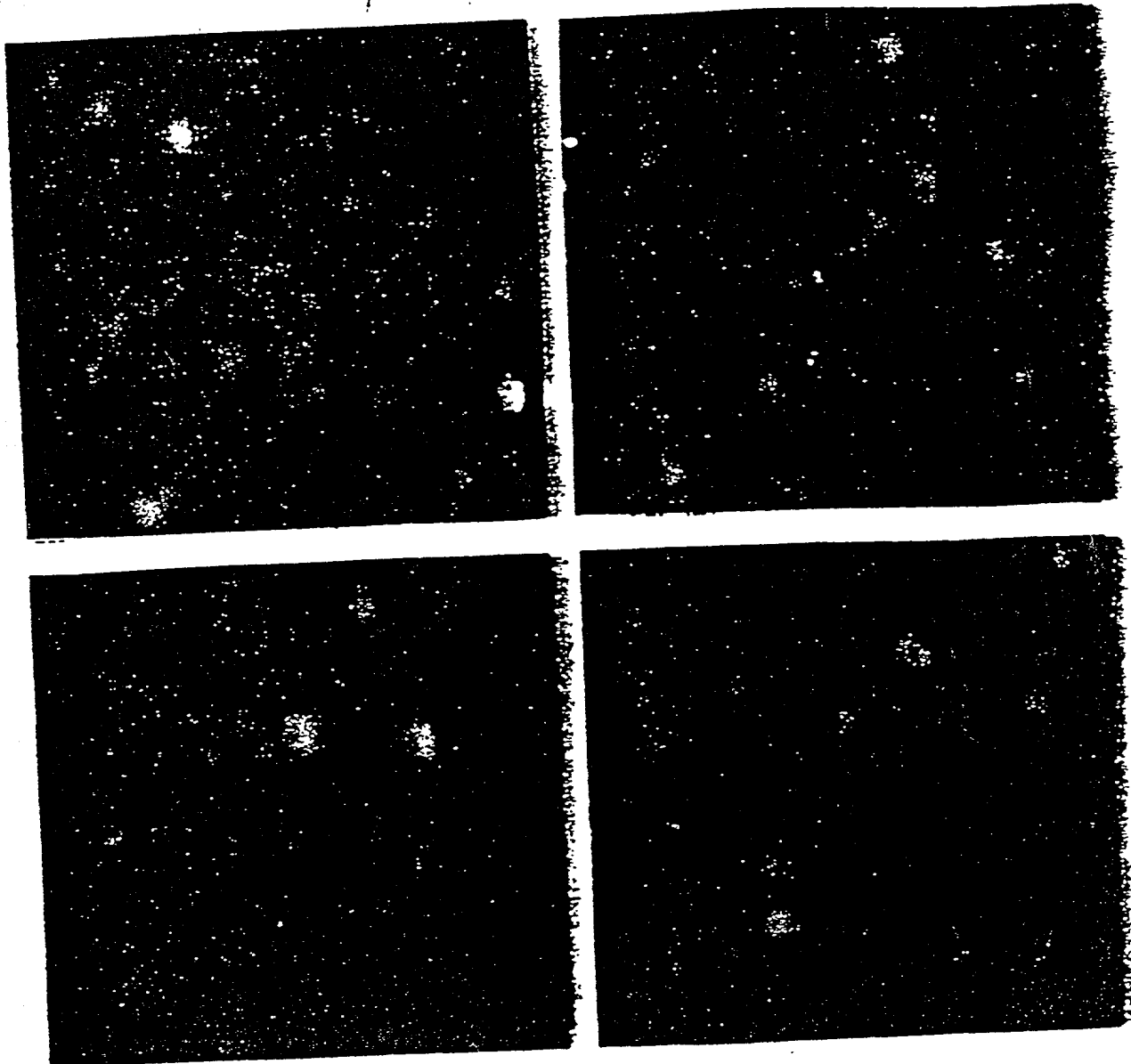


09027130-03001

Figure 1



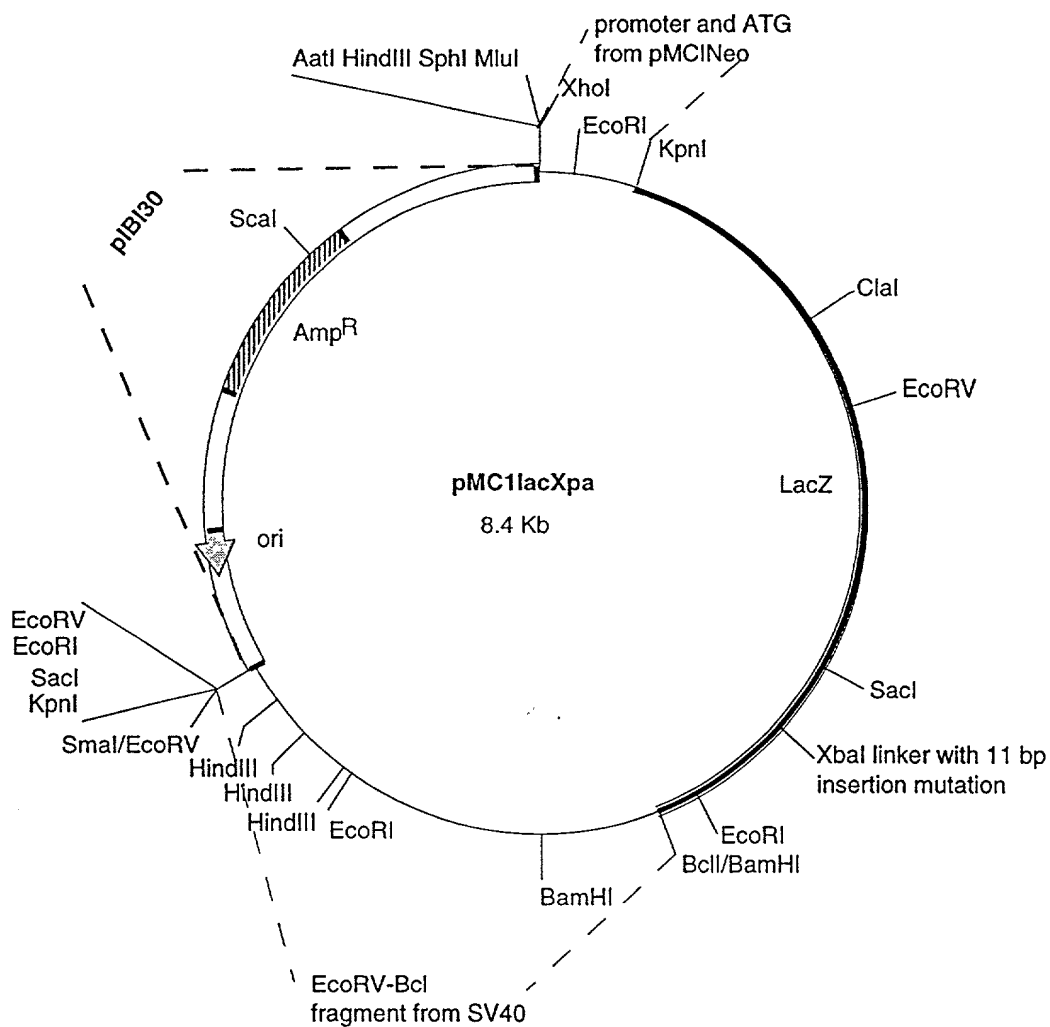


FIGURE 3

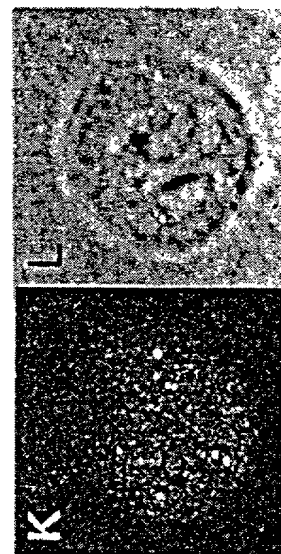
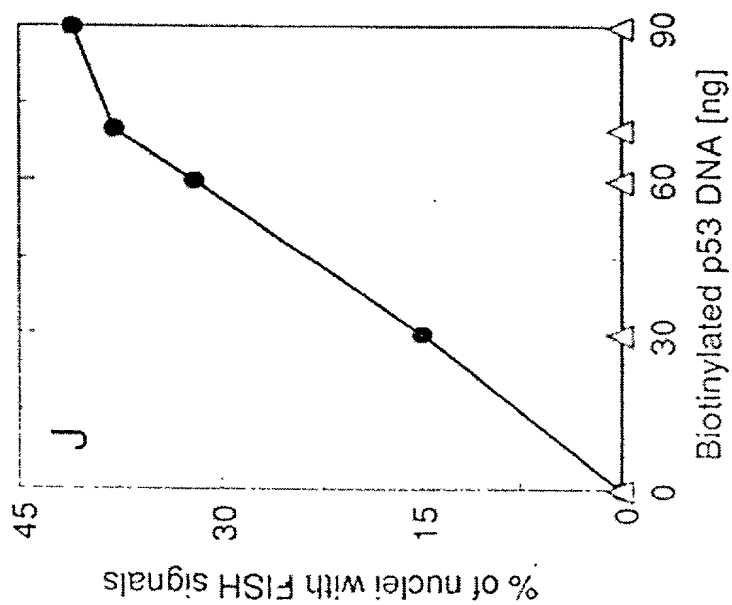
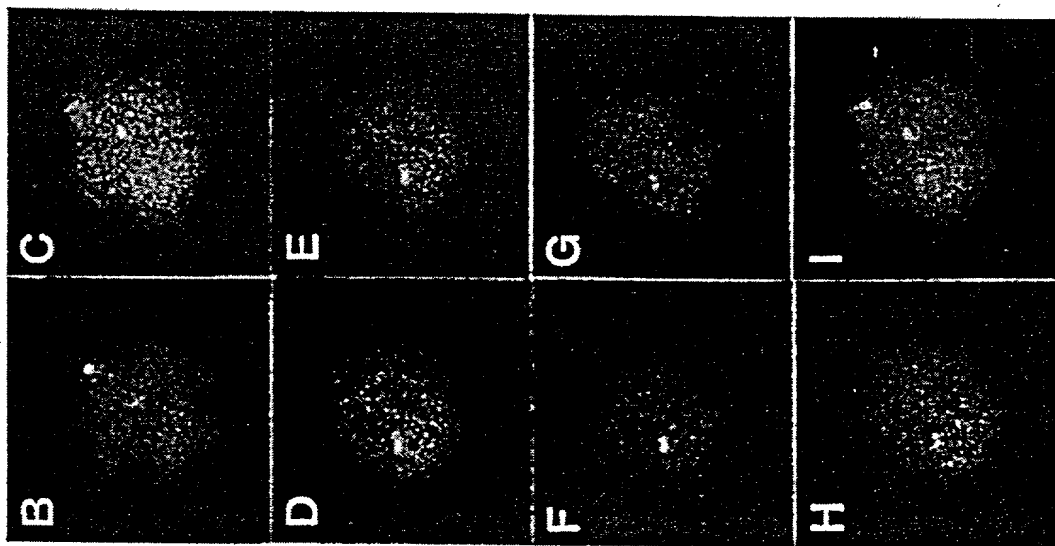
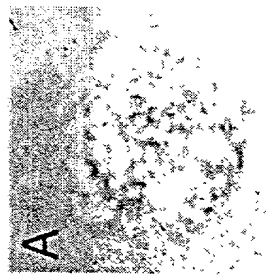


Figure 2

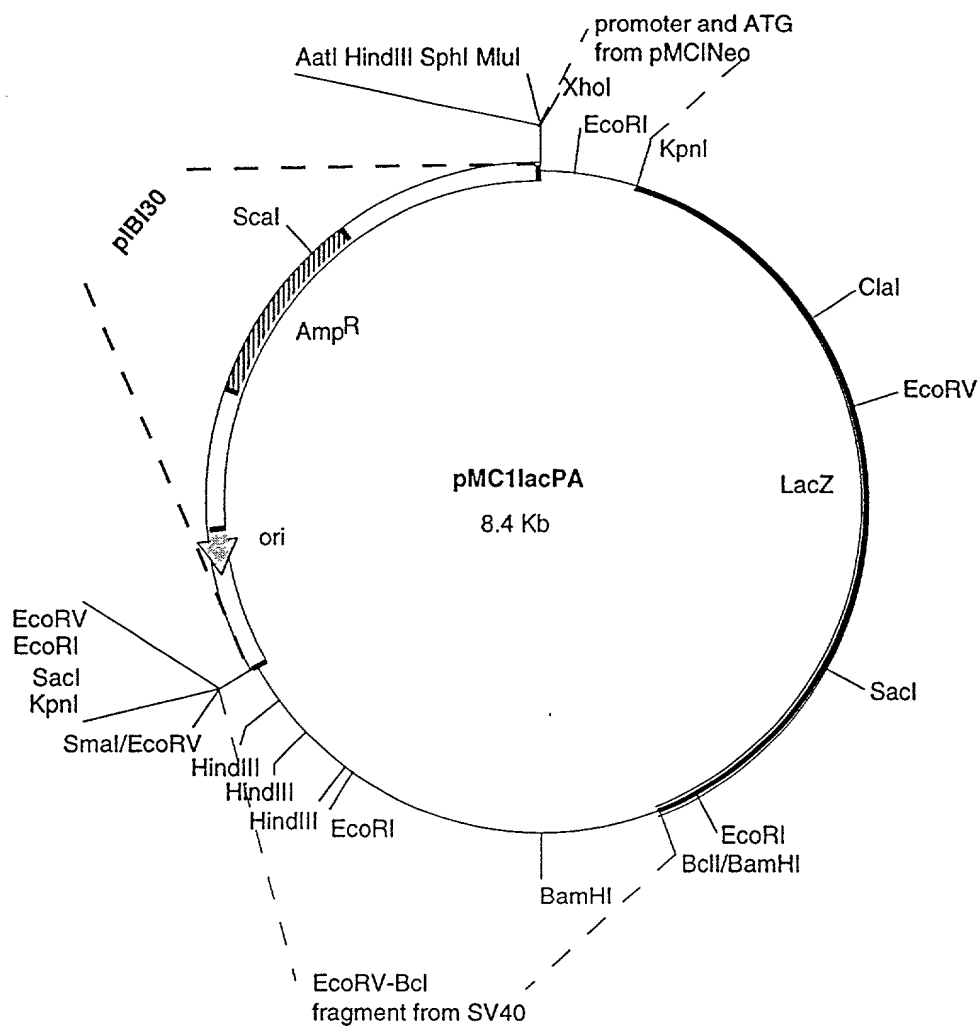
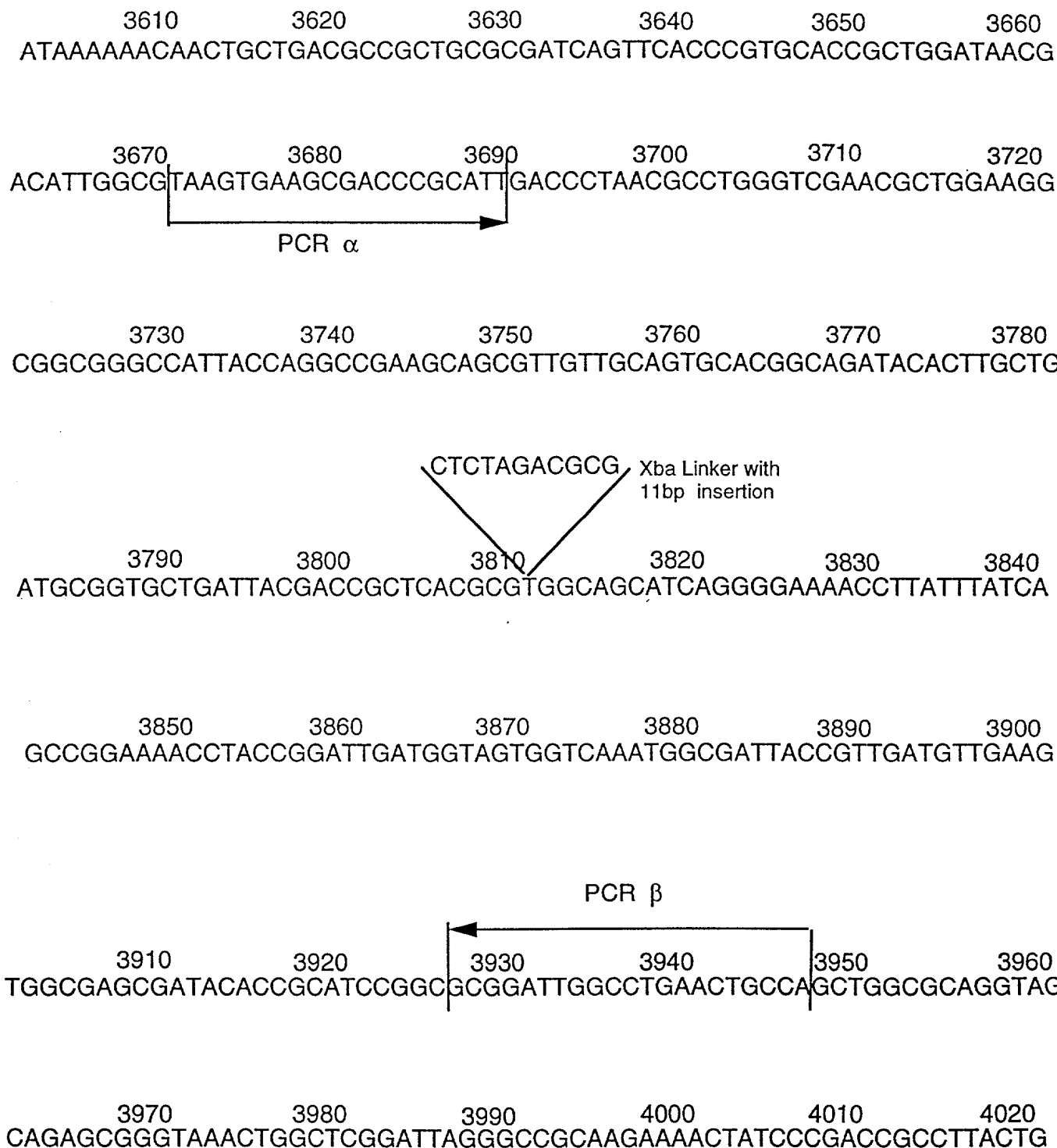


FIGURE 4

Figure 5



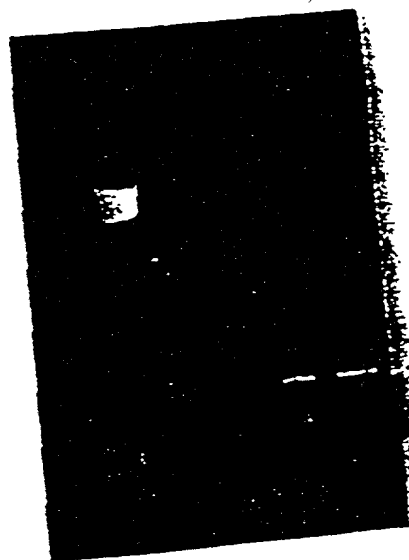
TEST FOR ALTERATION OF AN INSERTION MUTATION IN THE *lacZ*
(β -GALACTOSIDASE) GENE OF EUKARYOTIC EXPRESSION VECTOR

Experimental Sample	Injected Plasmid, 276-mer DNA and RecA Protein		Number of Injected Surviving Cells	Number of Surviving Cells Scoring Blue	Surviving Cells Scoring Blue (%)
1	pSV- β -gal	-276-mer - RecA	168	21	12.5
2	pMC1lacpa	- 276-mer - RecA	98	9	9.2
3	pMC1lacXpa	- 276-mer - RecA	173	0	0
4	pMC1lacXpa	+ 276-mer - RecA	103	0	0
5	pMC1lacXpa	+ 276-mer + RecA	168	6	3.6

Figure 6

T06033-05T22660

M 1 2 3



687 bp

Figure 7A

Control (Σ CF)
T Σ CF Microinjected
T Σ CF P-L

Figure 7B



687 bp

T06080-09T/2560

09527160 09T 22560

1 2 3 4 5 6

300 ▶

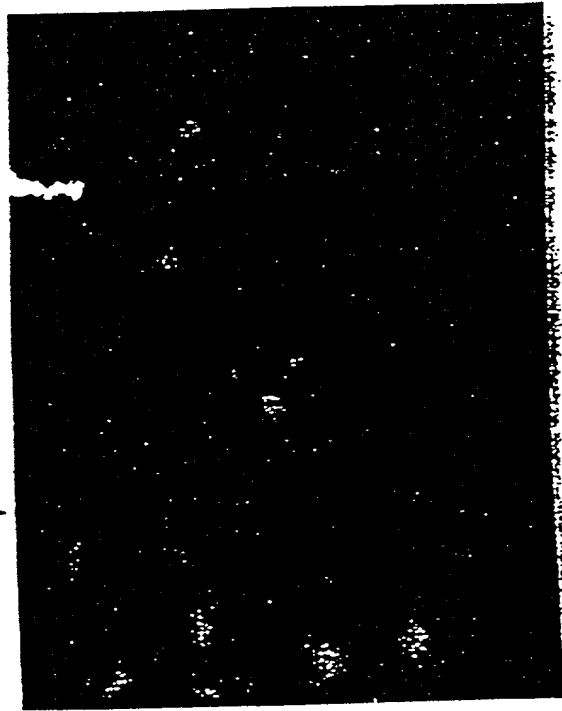


Figure
8A

1 2 3 4 5



Figure
8B

FOUO 09122660

299

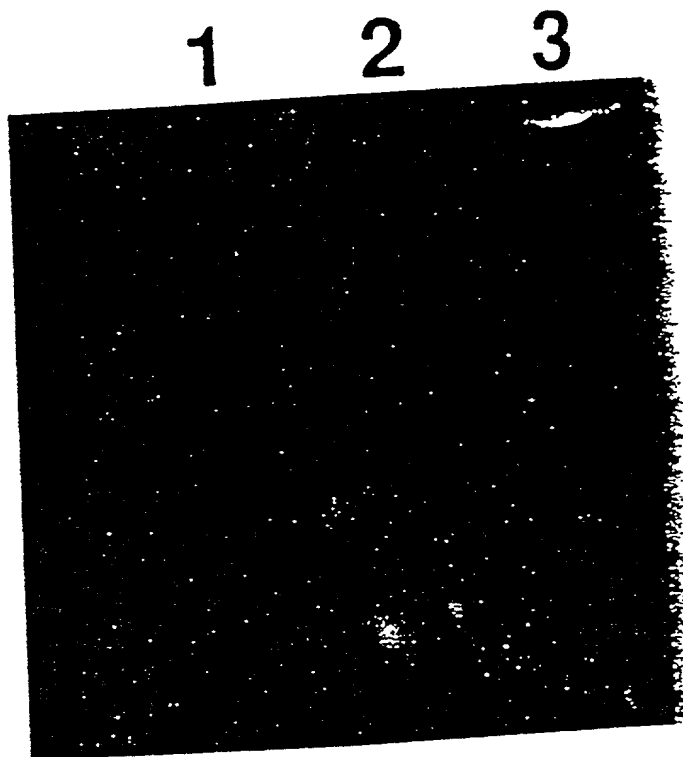


Figure 9

Scheme for recombination assay

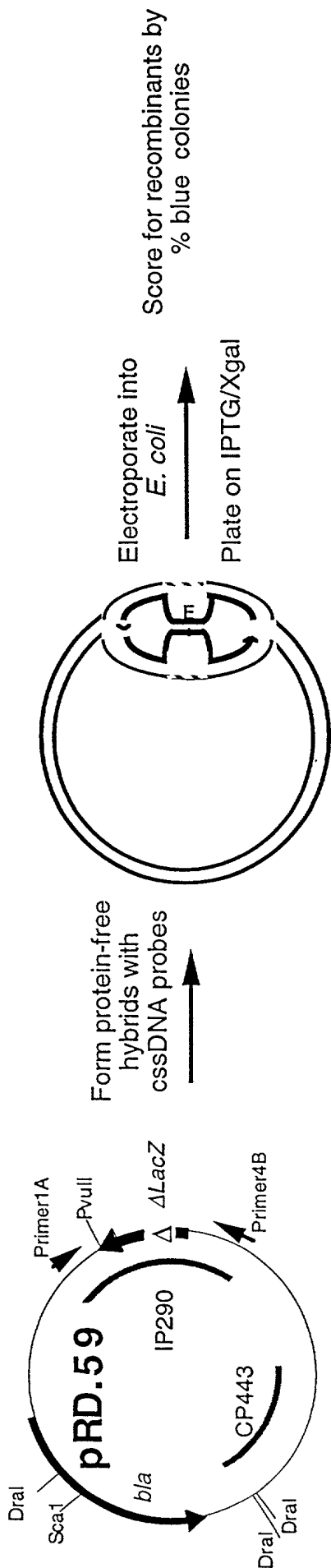


Figure 10

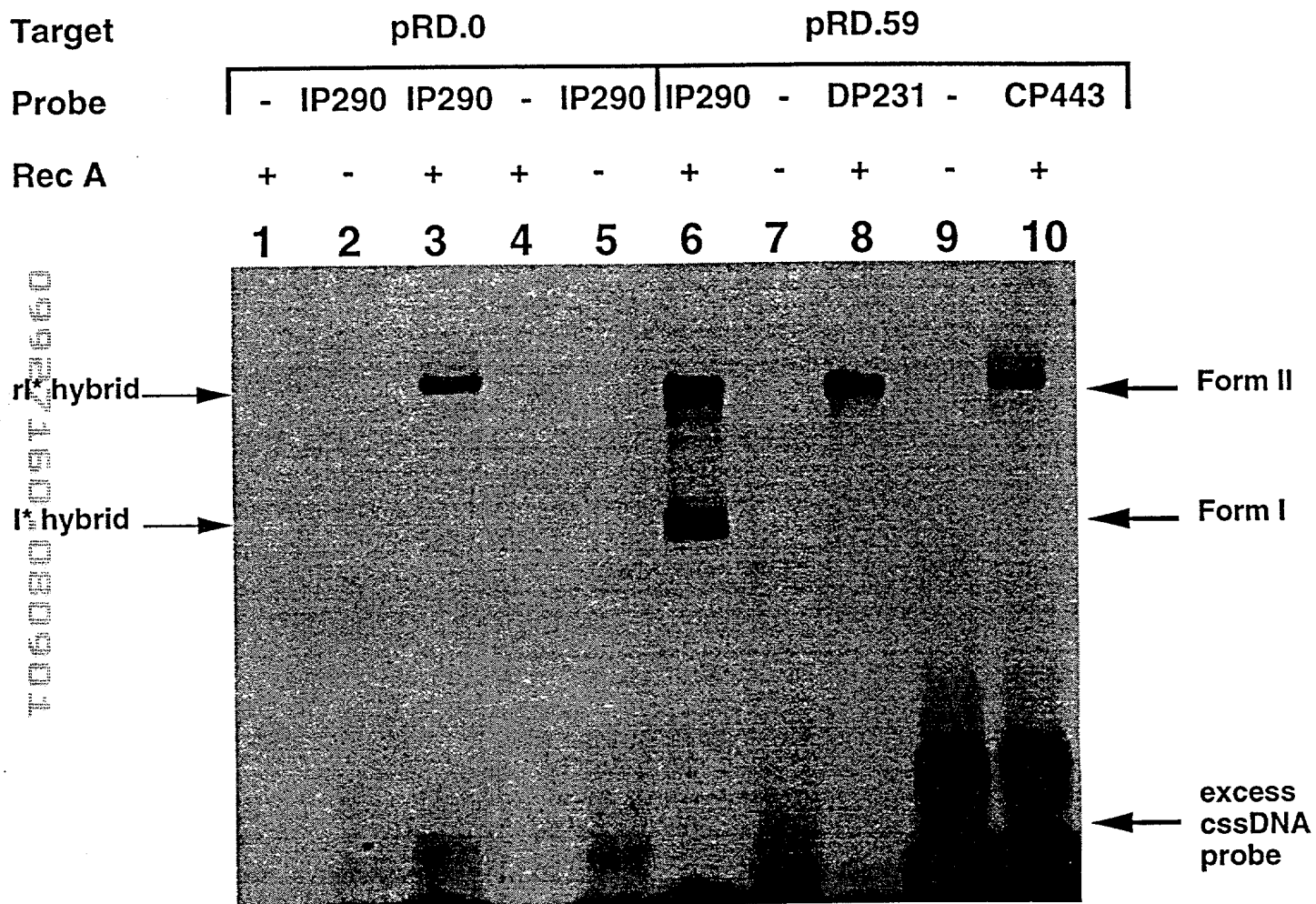


FIGURE 11

cssDNA Probe:Target Hybrids Enhance Homologous Recombination

Target Probe	RecA coating	Host	%Recombinant / total colonies
pRD.59 -	+	RecA+	0
pRD.59 -	+	RecA -	0
pRD.59 IP290	-	RecA+	0
IP290	-	RecA -	0
pRD.59 IP290	+	RecA+	3
IP290	+	RecA -	0
pRD.59 DP290	-	RecA+	0
DP290	-	RecA -	0
pRD.59 DP290	+	RecA+	0
DP290	+	RecA -	0
pRD.59 CP443	-	RecA+	0
CP443	-	RecA -	0
pRD.59 CP443	+	RecA+	0
CP443	+	RecA -	0

Figure 12

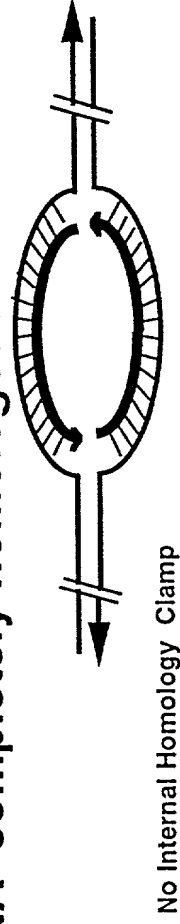
Four-strand hybrids

All DNA probe and target strands are paired

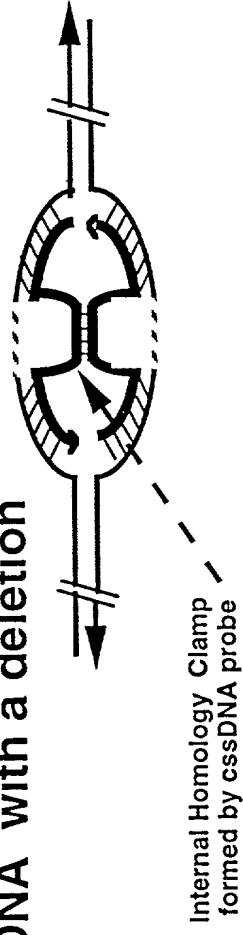
Three-strand hybrids

Certain regions of DNA probe or target strands are unpaired

A. Target DNA completely homologous



B. Target DNA with a deletion



C. Target DNA with an insertion

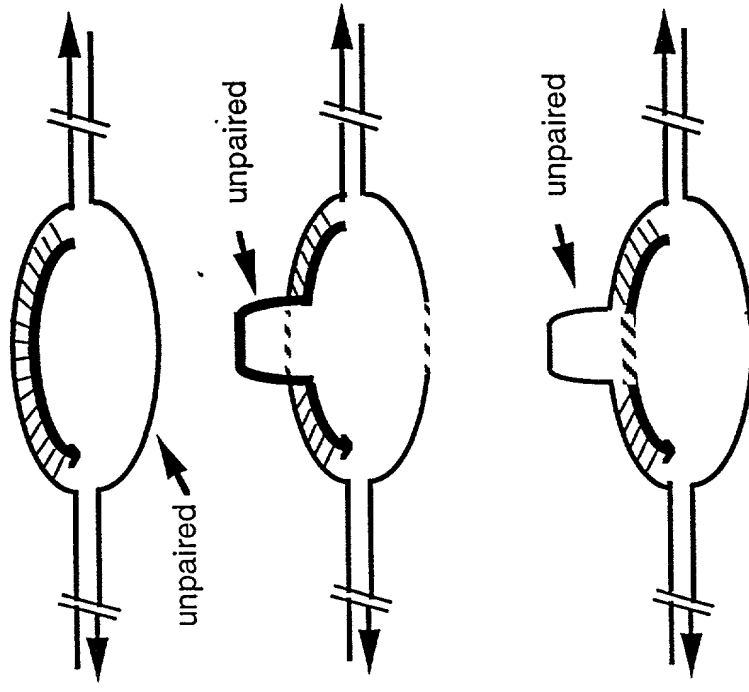
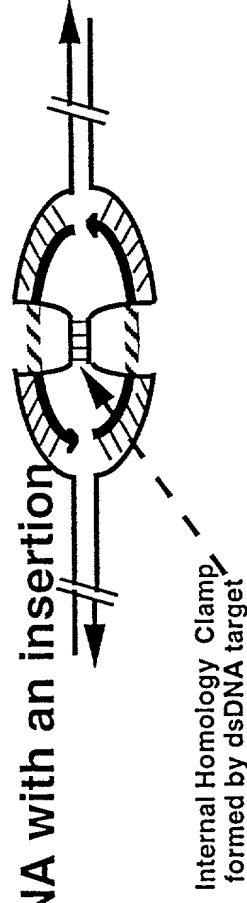


Figure 13

Figure 14A

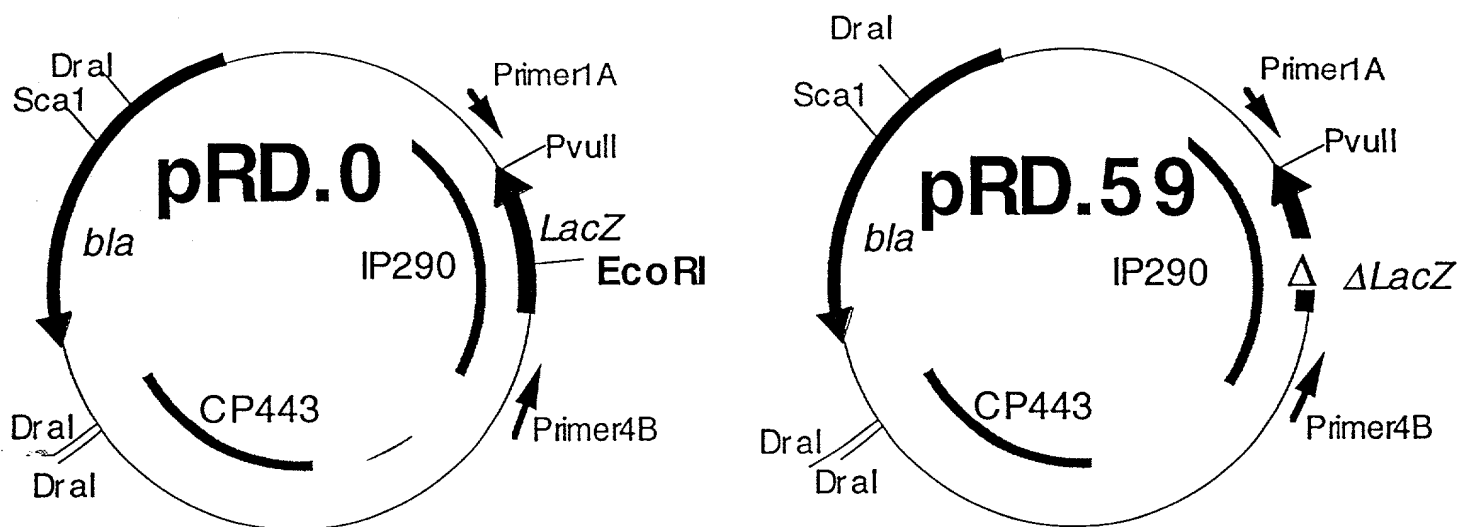
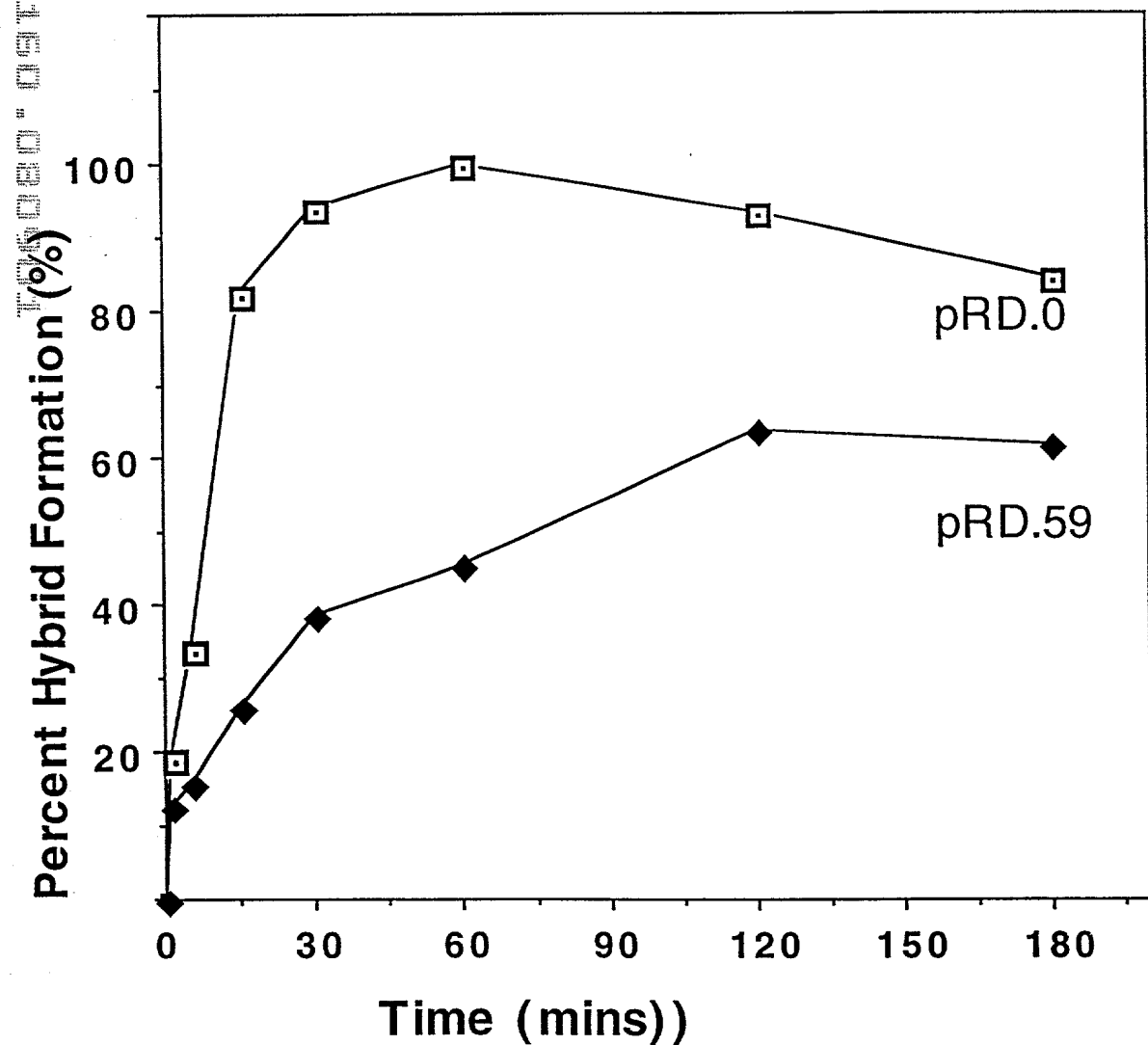


Figure 14B



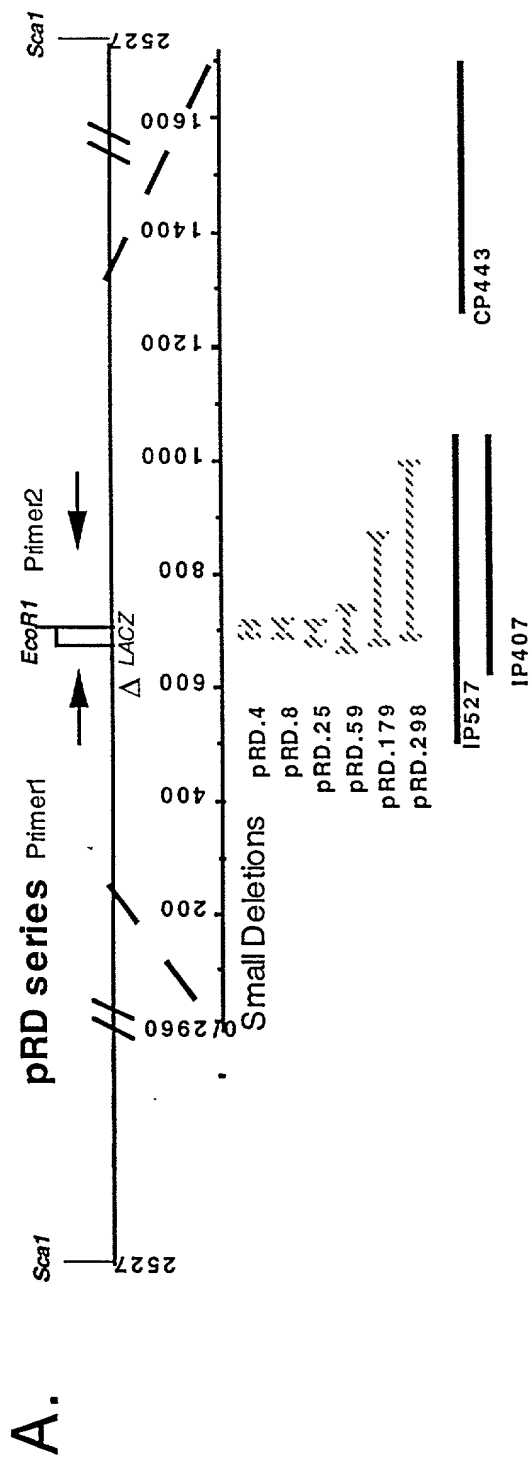


Figure 15A

Figure15B

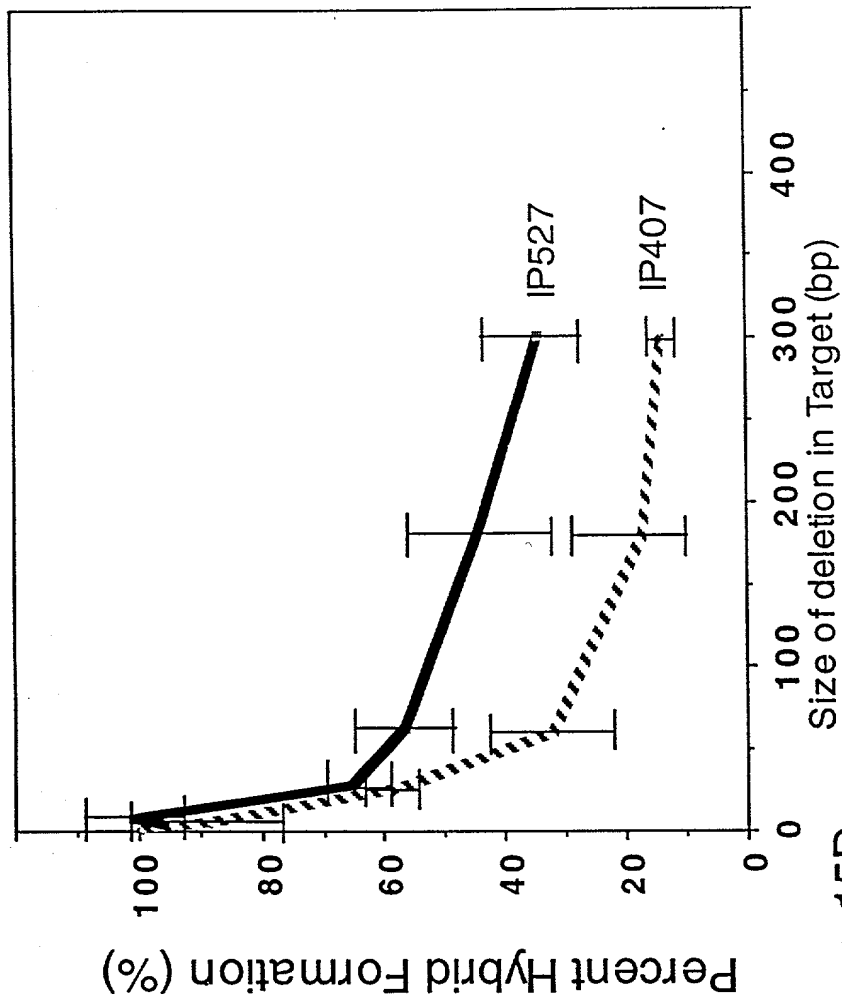


Figure15D

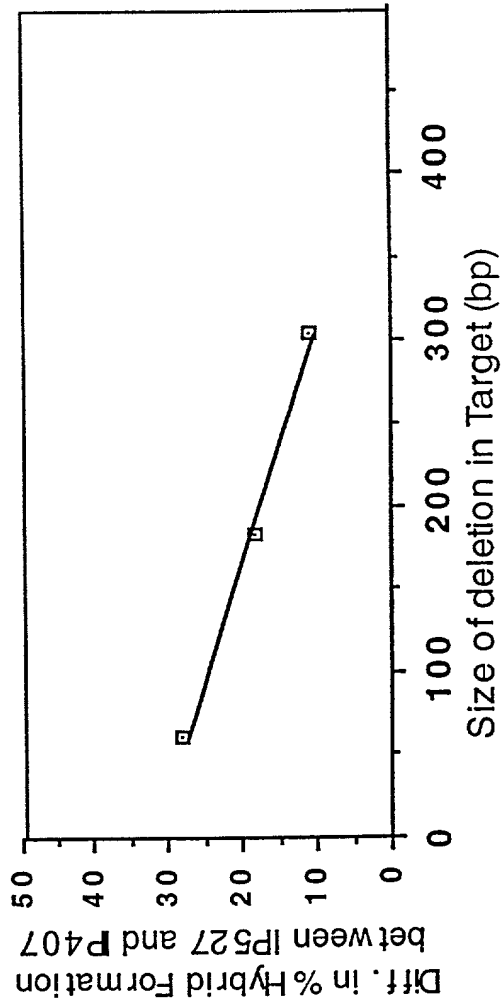
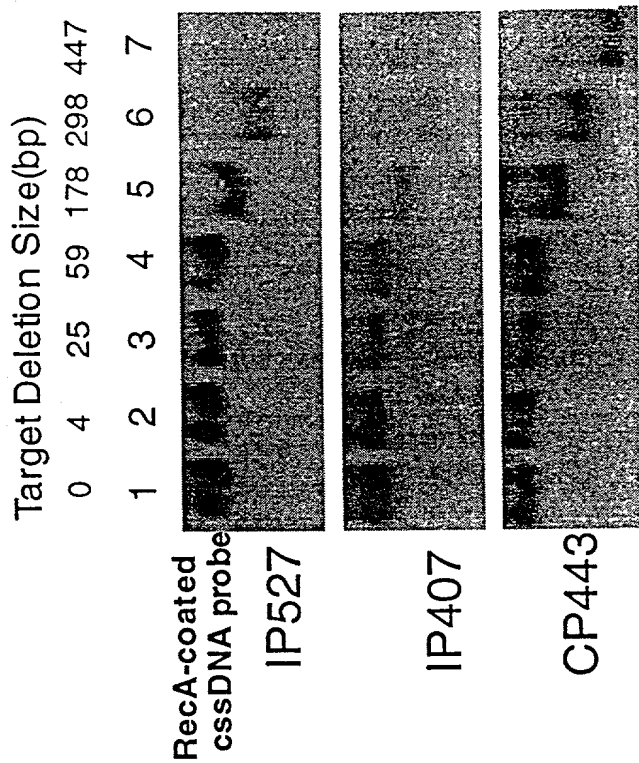


Figure15C



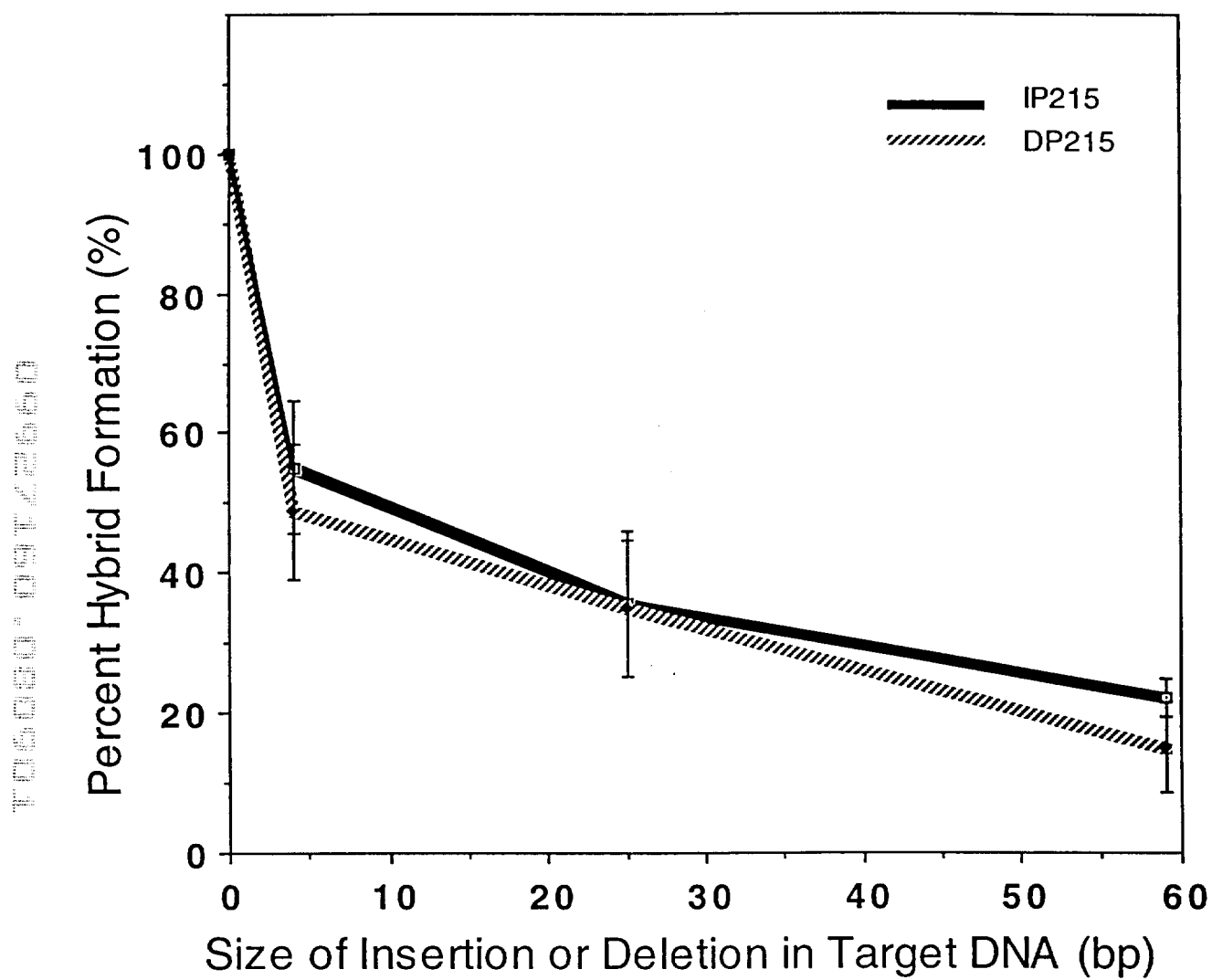


Figure 16

Figure 17A

Probe	P1246	CP443
	pRD.0	pRD.0
	pRD.448	pRD.448
	pRD.453	pRD.453
	pRD.559	pRD.559
	pRD.967	pRD.967

Target

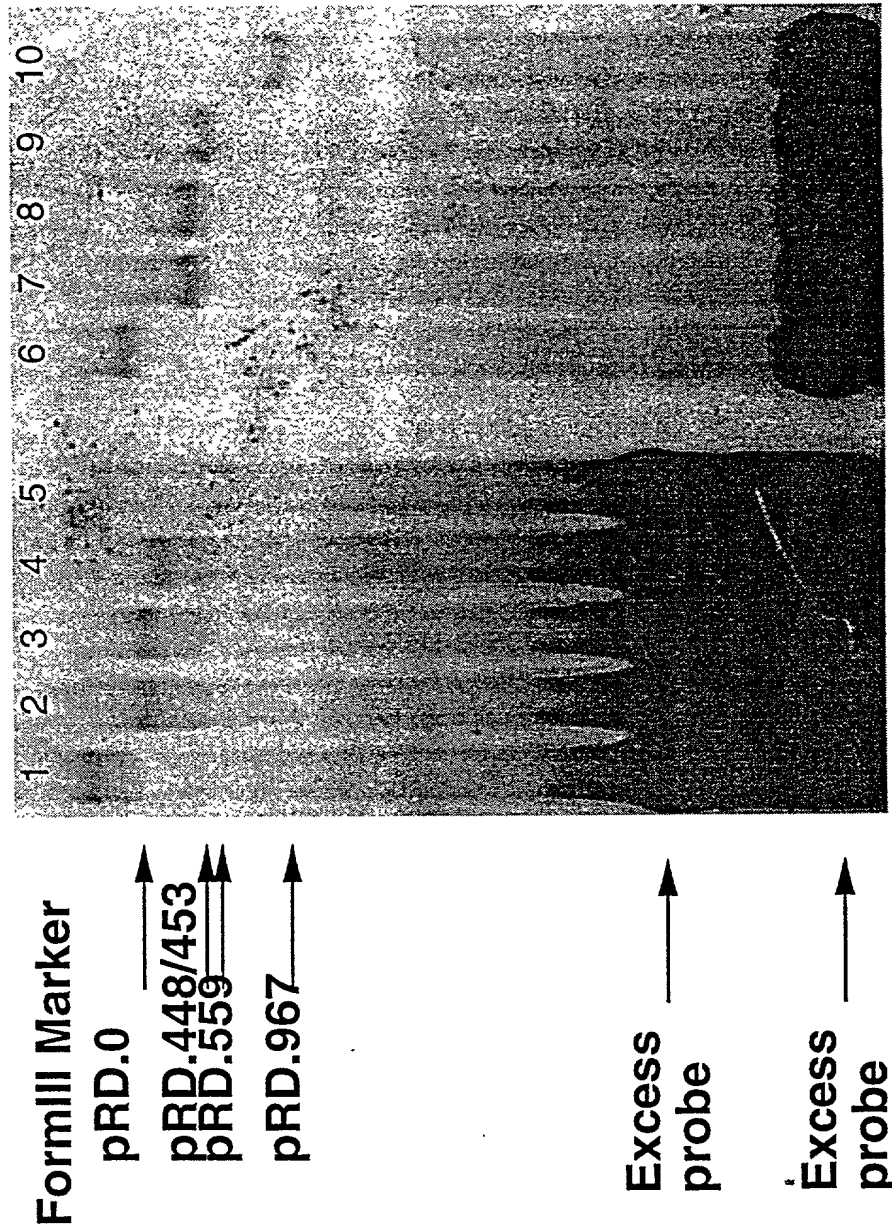


Figure 17B

TARGET	AMT.	RELATIVE
DNA	HOMOL. (bp)	HYBRIDIZATION

pRD.0	1246	1.0
pRD.448	798	0.8
pRD.453	793	0.8
pRD.559	687	0.8
pRD.967	279	0.3

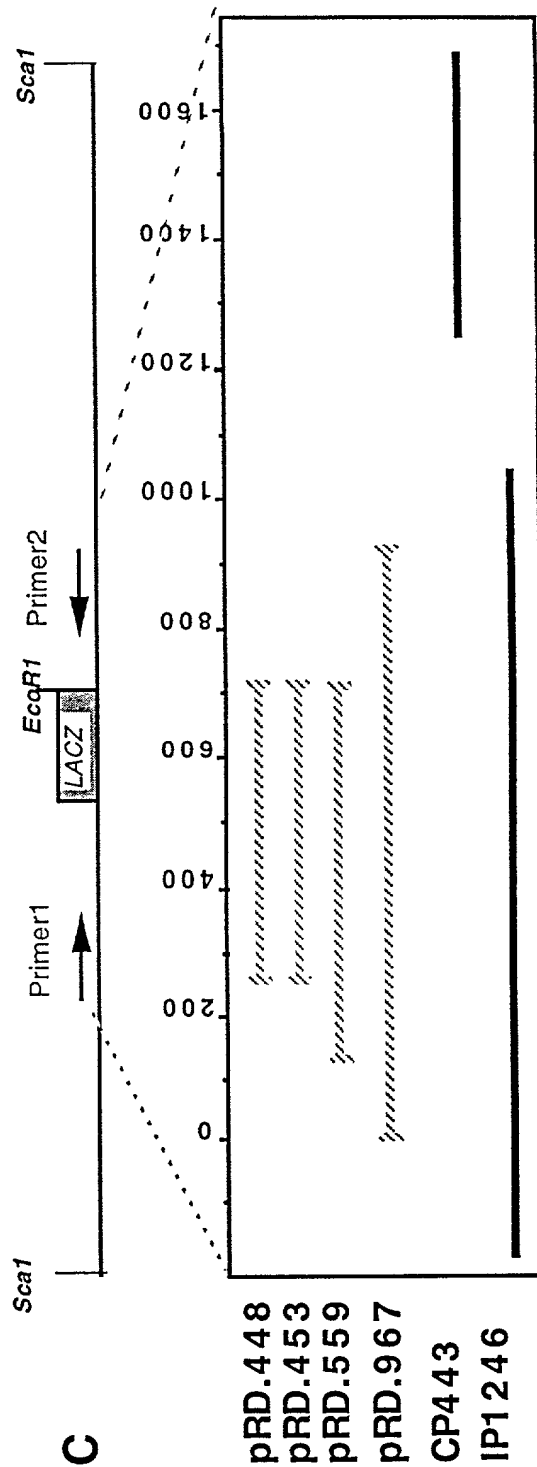


Figure 18

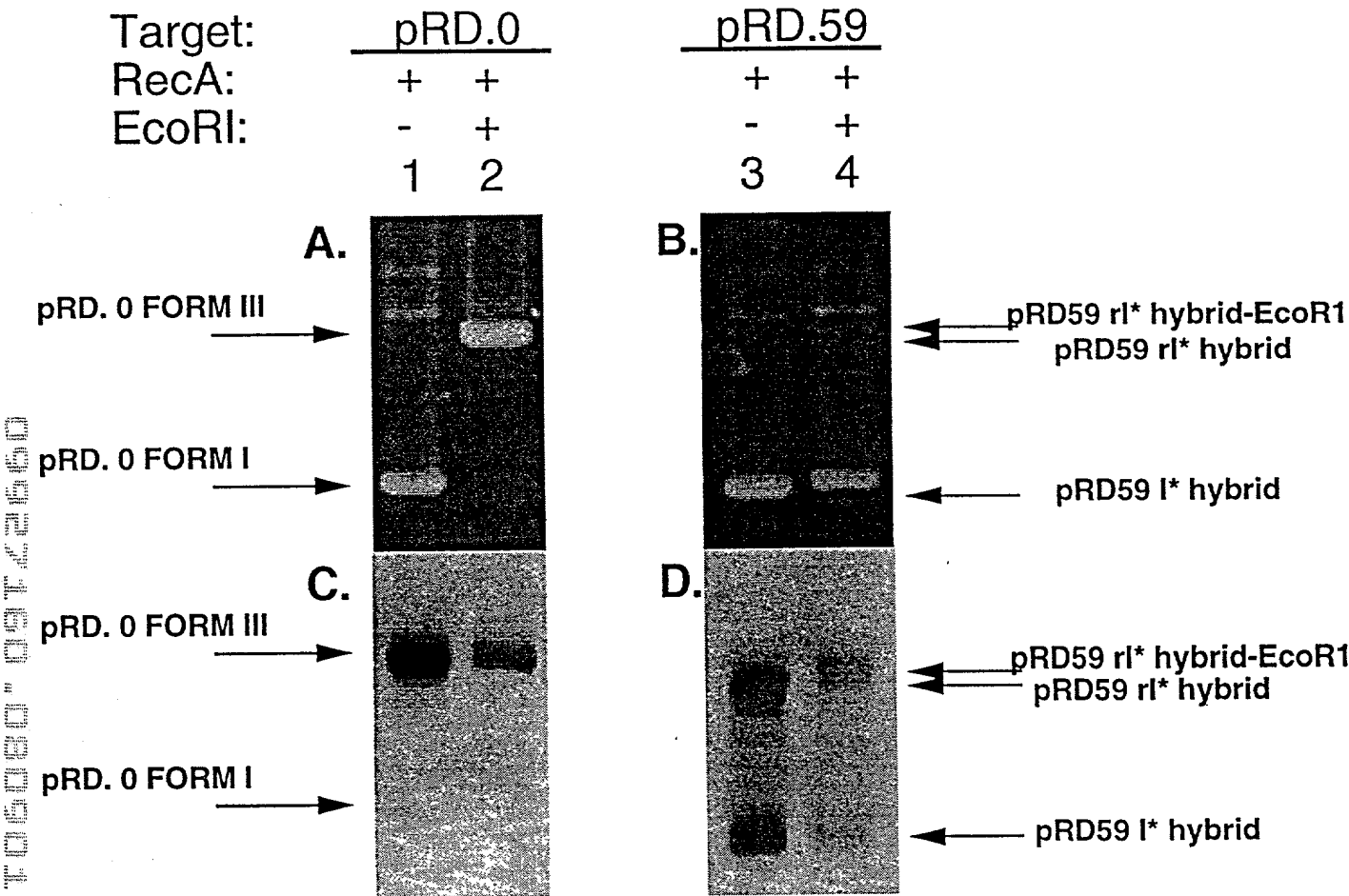
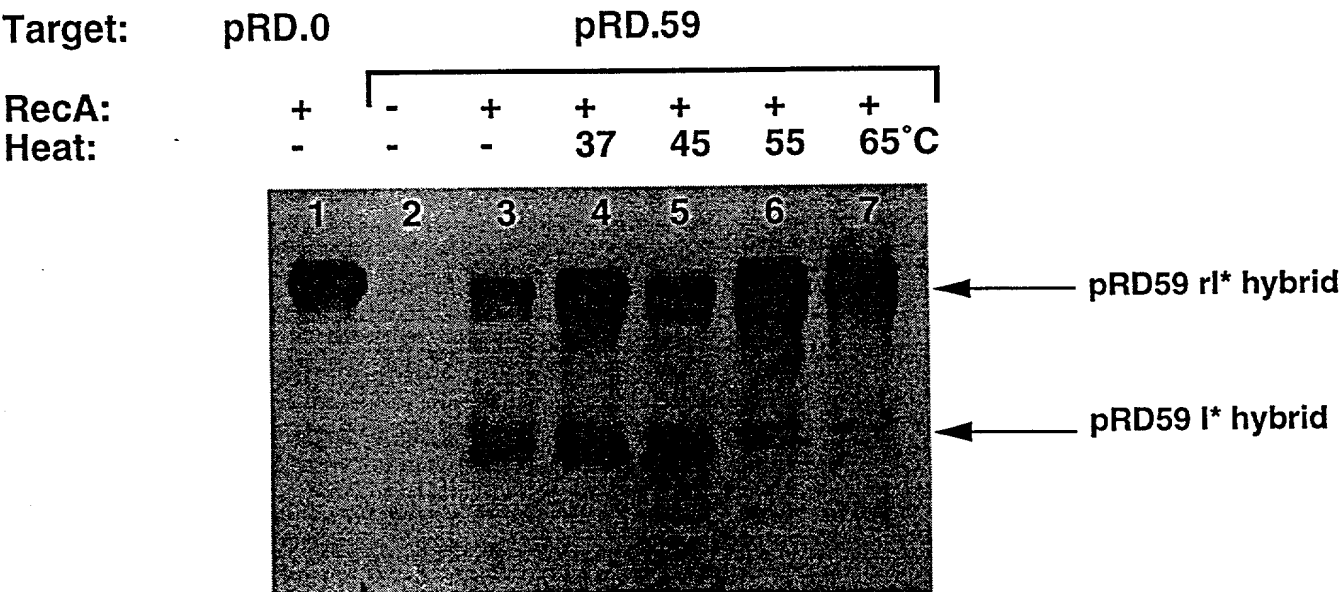
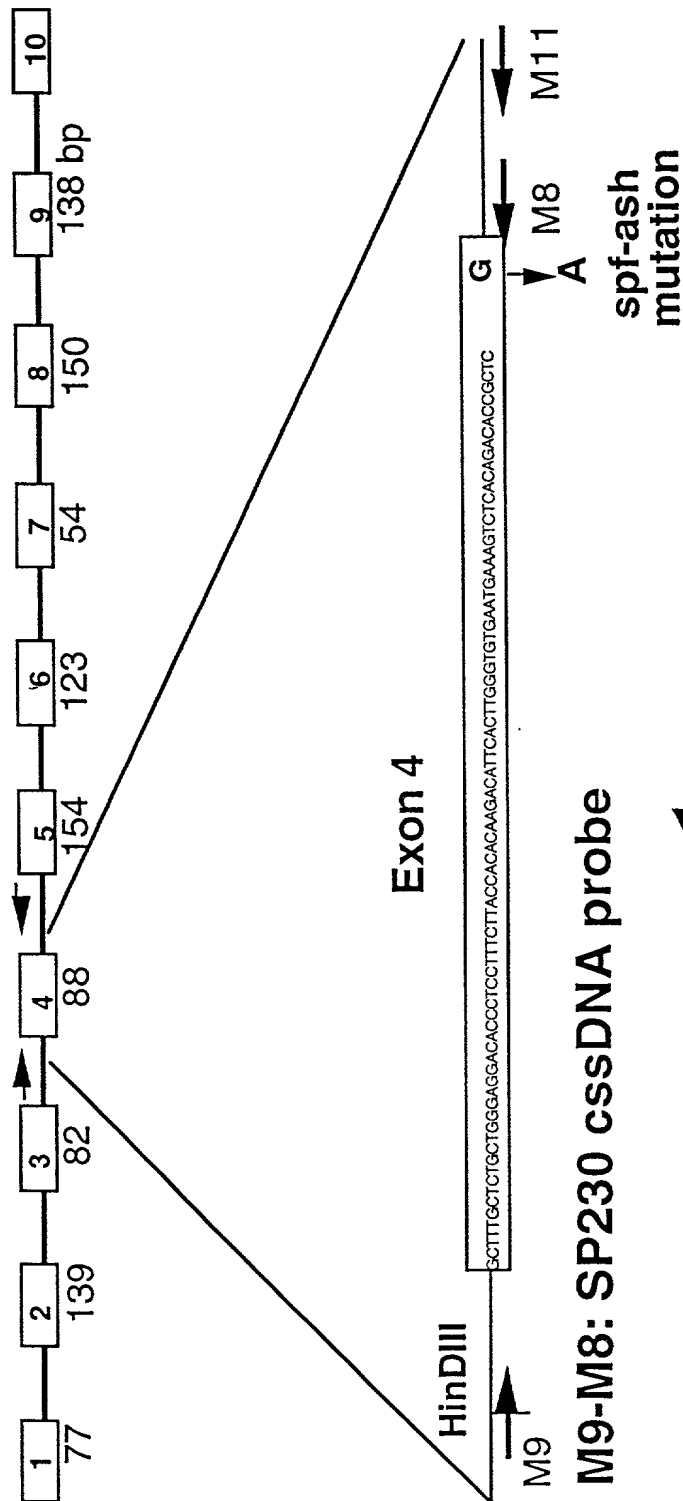


Figure 19



Mouse Ornithine Transcarbamylase Gene

Figure 20A



M9-M8: SP230 cssDNA probe

Figure 20B

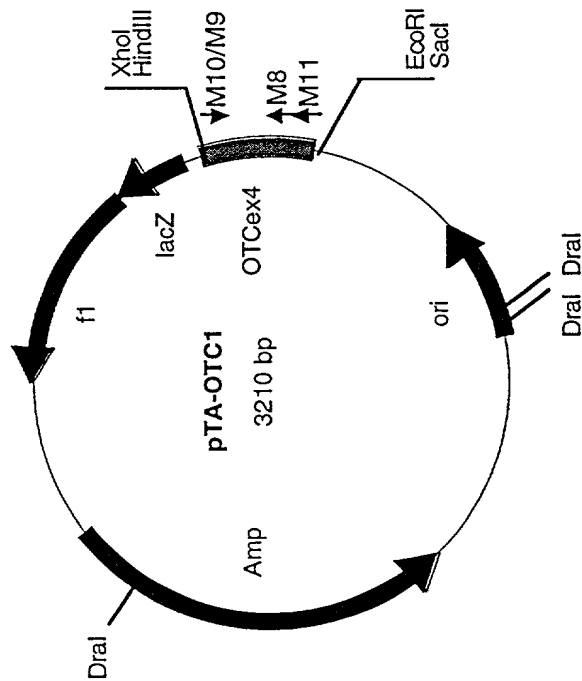


Figure 22 Germline Transmission of EHR Corrected OTC⁺ Allele

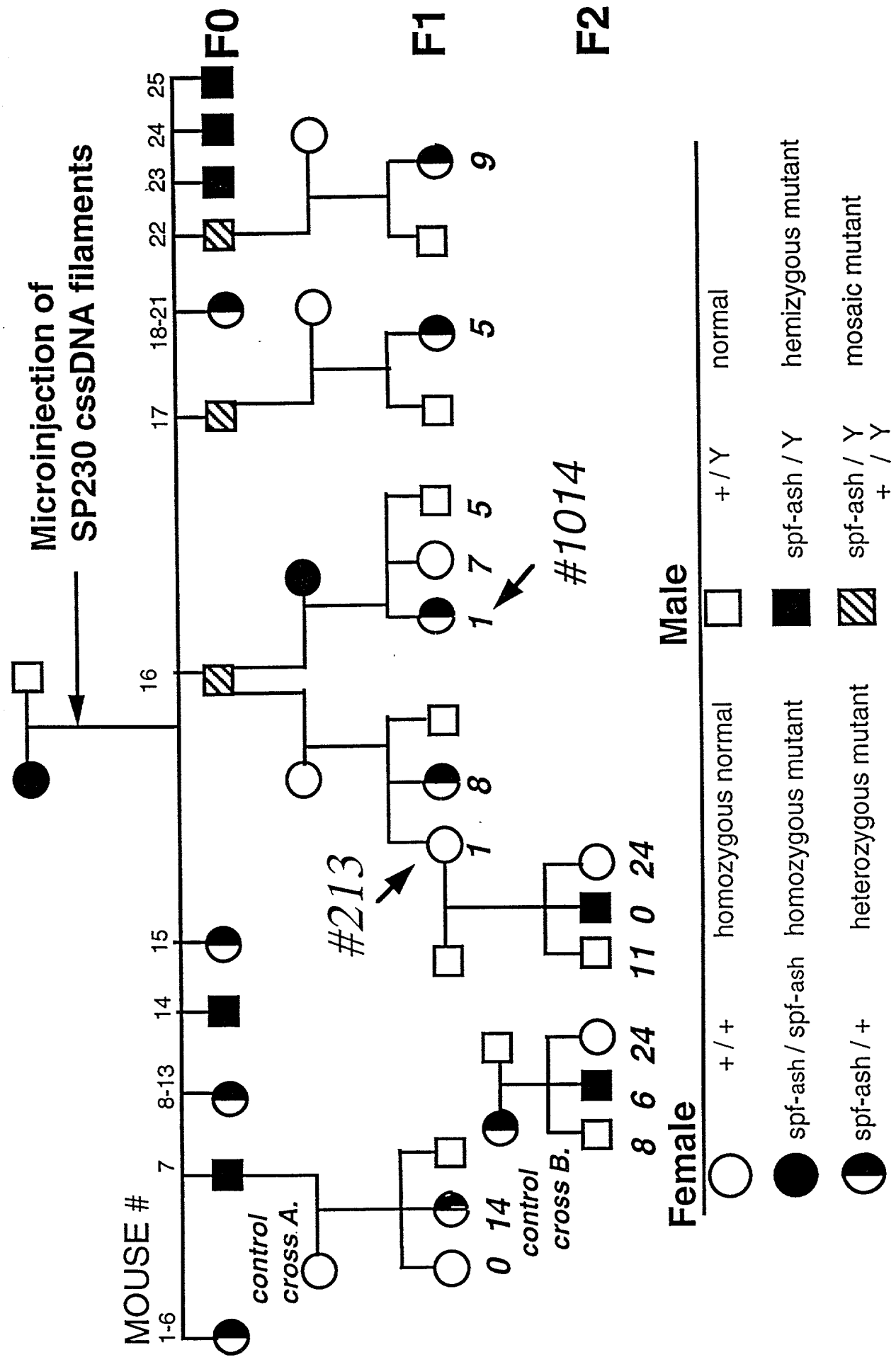


Figure 23 Germline Transmission of Corrected Allele of F0 Male #16



**Homozygous
spf-ash/spf-ash
female parent**

**Mutant F1
Male Pup1**



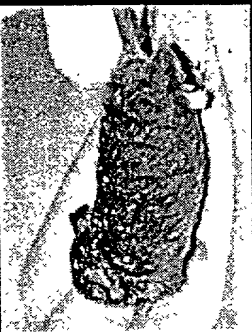
**Mutant F1
Male Pup2**



**Mutant F1
Female Pup3**



**Mutant F1
Male Pup5**



**Mutant F1
Female Pup7**



**Normal *
F1 Female
Pup1014**

